BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Estimate Cost Rs. **2000000.00**

Name of Work: Detailed Estimate for the Work of Maintenance of Existing Borewells at gadenagara Surrounding area in Ward No. 06 Byatarayanapura Sub Division

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	A) Rewinding								
	Labour Charges of lifting of non functioning submersible Pump set along with cable and GI Pipes (BWSSB SR 14-15, P-558 I-1(i)	Each Length	2X40	35.00			**2800**	109.00	**305200.00**
	Transportation of pumping machineries (**P. 56 / I. 10.3.19) PRED SR (2012-13)**	Each	40				**40**	900.00	**36000.00**
	Rewinding of Submersible Pump Sets								
	(BWSSB SR 14-15 P-58 I-A) 10 HP	No.	8				**8**	4785.00	**38280.00**
	(BWSSB SR 14-15 P-58 I-A) 7.5 HP	No.	10				**10**	3822.00	**38220.00**
	(BWSSB SR 14-15 P-58 I-A) 12.5 HP	No.	10				**10**	5885.00	**58850.00**
	(BWSSB SR 14-15 P-58 I-A) 15.0 HP	No.	12				**12**	5800.00	**69600.00**
	B) Replacement of Motor Parts:								
	Pump Bowls (BWSSB SR 14-15 P-58 I-B)	No.	210				**210**	308.00	**64680.00**
)	Intermediate Piece (I.P) With IP Leaded Bronxe bush (BWSSB SR 14-15 P-58 I-B2)	No.	40				**40**	715.00	**28600.00**
	Upper Flange **(BWSSB SR 14-15 P-59 I-C3)**	No.	40				**40**	330.00	**13200.00**
2	Lower Housing **(BWSSB SR 14-15 P-59 I-C4)**	No.	40				**40**	539.00	**21560.00**
3	Guide vane **(BWSSB SR 14-15 P-58 I-B5)**	No.	150				**150**	192.50	**28875.00**
4	Impeller Shell moulded with aluminium Bronze) (BWSSB SR 14-15 P-58 I-B6)	No.	40				**40**	264.00	**10560.00**
5	Discharge outlet (D.O) Bearing D.O Steel Bush **P. (BWSSB SR 14-15 P-58 I-B7)**	No.	60				**60**	522.50	**31350.00**
6	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **(BWSSB SR 14-15 P-58 I-B10)**	No.	35				**35**	660.00	**23100.00**
7	Pump Couping (Stainless Steel) (BWSSB SR 14-15 P-58 I-B12)	No.	40				**40**	341.00	**13640.00**
8	Stud and Nuts (BWSSB SR 14-15 P-59 I-C8)	Each	100				**100**	88.00	**8800.00**
9	Motor Base With Pin (BWSSB SR 14-15 P-59 I-C11)	Each	25				**25**	407.00	**10175.00**
0	Starter (with one year Guarantee) **P No. 55 / I No. 10.3.3 PRED SR (2012-13)**	No.	20				**20**	5050.00	**101000.00**
21	Rotor (with one year Guarantee) **P No. 55 / I No. 10.3.6) PRED SR (2012-13)**	No.	25				**25**	4700.00	**117500.00**
22	Carbon Housing **P. No. 56 / I No.10.3.12 PRED SR (2012-13)**	No.	40				**40**	475.00	**19000.00**
23	Thrust bearing block assembly complete with Segment bearing pad.**P. No. 55 / I No.10.3.13 PRED SR (2012-13)**	No.	45				**45**	1150.00	**51750.00**
24	Oil Seal **P. No. 54 / I No.10.2.3 PRED SR (2012-13)**	No.	40				**40**	125.00	**5000.00**

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Oil Seal Steel Bush **P. No. 54 / I No. 10.2.4 PRED SR (2012-13)**	No.	40				**40**	150.00	**6000.00**
Bearing P. No. 44 / I No. 10.2.7 PRED SR (2012-13)	No.	60				**60**	285.00	**17100.00**
Steel Bush **P. No.55 / I No. 10.2.9 PRED SR (2012-13)**	No.	300				**300**	150.00	**45000.00**
Allen Screw P. No.44 / I No. 10.2.9 RDPR SR (2012-13)	No.	140				**140**	25.00	**3500.00**
Pump Key (Stainless Steel) P. No. 45 / I No. 10.2.11 RDED SR (2012-13)	No.	30				**30**	125.00	**3750.00**
Non – return valve (NRV) assembly complete with rubber 'O' Ring **P. No. 55 / I No. 10.2.14 PRED SR (2012-13)**	No.	20				**20**	1350.00	**27000.00**
Cable Guard **P. No. 55 / I No. 10.2.15 PRED SR (2012-13)**	No.	40				**40**	150.00	**6000.00**
Strainer P. No. 45 / I No. 10.2.15 RDED SR (2012-13)	No.	40				**40**	150.00	**6000.00**
Brass Filter **P. No. 55 / I No. 10.2.17 PRED SR (2012-13)**	No.	40				**40**	250.00	**10000.00**
Labour Chargesw (Over Hauling Only) P. No. 45 / I No. 10.2.18 PRED SR (2012-13)	No.	40				**40**	556.00	**22240.00**
Re-erection charges of pumping machineries including overhauling and pointing **P. No. 56 / I No. 10.3.20 PRED SR (2012-13)**	Each	40				**40**	950.00	**38000.00**
Lock Ring P. No. 45 / I No. 10.3.11 PREC SR (2012-13)	Each	55				**55**	85.00	**4675.00**
a) Carbon Housing P. No. 46 / I No. 10.3.12 APRDED SR (2012-13)	Each	40				**40**	475.00	**19000.00**
Top Carbon/Ferrodo padding P. No. 46 / I No. 10.3.12 APRDED SR (2012-13)	Each	40				**40**	150.00	**6000.00**
Bearing (Gunmetal) Centrifugal) Cast Aluminium Bronxe, Beaing bush P. No. 46 / I No. 10.3.16 APRDED SR (2012-13)	Each	35				**35**	400.00	**14000.00**
Circillps P. No. 45 / I No. 10.3.17 PREC SR (2012-13)	Each	60				**60**	50.00	**3000.00**
Genaral Itmes								
Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 49/ I No. 29-b(1) **4 Sqm mm of 56 strands 0.3mm dia Group - A KPWD Electrical SR**	Mtr							
		1	500.00			**500.00**	185.00	**92500.00**

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14)	No's							
		55	1.00			**55.00**	906.40	**49852.00**
Basic Rate	880							
3% area weightage	26.40							
Total	906.40							
Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No. 32/I No 3b KPWD Electrical SR 2010-11**	No.							
63 Amps		55	3.00			**165.00**		
						165.00	150.00	**24750.00**
Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel Valve. (PWD SR 2017-18, P.NO.XXIV, Sl.no, 673)	No's							
		10	3.00			**30.00**	1941.39	**58242.00**
Basic Rate	1650.00							
Add 11% AD-Hoc	181.50							
	1831.50							
Add 6% Area Weightage	109.89							
	1941.39							
Providing and fixing of 50mm GI bend to motor (PWD SR 2016-17, P.NO.XXXVIII GI FITTINGS TABLE)	No's							
		20	3.00			**60.00**	257.68	**15461.00**
Basic Rate	219.00							
Add 11% AD-Hoc	24.09							
	243.09							
Add 6% Area Weightage	14.59							
	257.68							
Providing and fixing of 50mm GI Nipple to motor (PWD SR 2016-17, P.NO.XXXVIII GI FITTINGS TABLE)	No's							
		20	3.00			**60.00**	122.72	**7363.00**
Basic Rate	104.30							
Add 11% AD-Hoc	11.47							
	115.77							
Add 6% Area Weightage	6.95							
	122.72							
Providing and fixing of 50mm GI union to the motor ((PWD SR 2016-17, P.NO.XXXVIII GI FITTINGS TABLE)	No's							
		20	3.00			**60.00**	263.21	**15792.00**
Basic Rate	223.7							
Add 11% AD-Hoc	24.61							
	248.31							
Add 6% Area Weightage	14.90							
	263.21							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.3, PWD SR 16-17)	Cum							
		1	550.00	0.45	0.75	185.63		
						185.63	222.38	**41279.00**
Basic Rate	189.00							
Add 11% AD-Hoc	20.79							
	209.79							
Add 6% Area Weightage	12.59							
	222.38							
Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 94, I.NO - 13.73.2, PWD SR 16-17)	Mtr							
75 mm dia 6 KSC PVC pipe								
		1	550.00			550.00		
						550.00	409.46	**225201.00**
Basic Rate	348.00							
Add 11% AD-Hoc	38.28							
Total	386.28							
Add 6% Area Weightage	23.18							
Total	**409.46**							
Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 16-17)	Cum							
		Qty. Vide Item No.				**185.63**	89.42	**16599.00**
Basic Rate	76.00							
Add 11% AD-Hoc	8.36							
Total	84.36							
Add 6% Area Weightage	5.06							
Total	**89.42**							
KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 **P. 97 / I.13.37 PWD SR - 2016-17**	Each							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
		16				16	2414.38	38630.00
Basic Rate	2052.00							
Add 11% AD-Hoc	225.72							
Total	2277.72							
Add 6% Area Weightage	136.66							
Total	**2414.38**							
Threading of GI Pipes 50mm Dia P. No. 15 / I No.3.11.6 PRED SR (2012-13)		50X70				**3500.00**	25.00	**87500.00**
Miscellaneous and Unforeseen Charges	**L/S**							**626.00**
								2000000.00

RTIFICATE :

The work spot has been inspected and the work is found necessary.
This estimate is prepared as per PWD SR 2016-17, PRED S.R. of Rural Engineering Department
The provisions were made in this estimate are necessary and adequate.
This works come under B.B.M.P. limits.

Assistant Engineer
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Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division
Bangalore-24

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval
Accorded For ₹ 20.00 Lakhs
Head of A/C P-1771
CER NO : 305 Dt... 08-02-2018

TA CE (YNK)

TECHNICAL SANCTION
Accorded For Rs. Twenty lakhs only
Head of A/c. P-1771
Div. Ref. No. 95/18-19 Date. 13/02/18
AE
EE(BTP)